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to PHARMASEARCH  
NEWS 3 Oct 09 Korean abstracts now included in Derwent World Patents  
Index  
NEWS 4 Oct 09 Number of Derwent World Patents Index updates increased  
NEWS 5 Oct 15 Calculated properties now in the REGISTRY/ZREGISTRY File  
NEWS 6 Oct 22 Over 1 million reactions added to CASREACT  
NEWS 7 Oct 22 DGENE GETSIM has been improved  
NEWS 8 Oct 29 AAASD no longer available  
NEWS 9 Nov 19 New Search Capabilities USPATFULL and USPAT2  
NEWS 10 Nov 19 TOXCENTER(SM) - new toxicology file now available on STN  
NEWS 11 Nov 29 COPPERLIT now available on STN  
NEWS 12 Nov 29 DWPI revisions to NTIS and US Provisional Numbers  
NEWS 13 Nov 30 Files VETU and VETB to have open access  
NEWS 14 Dec 10 WPINDEX/WPIDS/WPIX New and Revised Manual Codes for 2002  
NEWS 15 Dec 10 DGENE BLAST Homology Search  
NEWS 16 Dec 17 WELDASEARCH now available on STN  
NEWS 17 Dec 17 STANDARDS now available on STN  
NEWS 18 Dec 17 New fields for DPCI  
NEWS 19 Dec 19 CAS Roles modified  
NEWS 20 Dec 19 1907-1946 data and page images added to CA and Cplus  
NEWS 21 Jan 25 BLAST(R) searching in REGISTRY available in STN on the Web  
NEWS 22 Jan 25 Searching with the P indicator for Preparations  
NEWS 23 Jan 29 FSTA has been reloaded and moves to weekly updates  
NEWS 24 Feb 01 DKILIT now produced by FIZ Karlsruhe and has a new update  
frequency

NEWS EXPRESS February 1 CURRENT WINDOWS VERSION IS V6.0d,  
CURRENT MACINTOSH VERSION IS V6.0a(ENG) AND V6.0Ja(JP),  
AND CURRENT DISCOVER FILE IS DATED 05 FEBRUARY 2002  
NEWS HOURS STN Operating Hours Plus Help Desk Availability  
NEWS INTER General Internet Information  
NEWS LOGIN Welcome Banner and News Items  
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FULL ESTIMATED COST

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ENTRY	SESSION
0.15	0.15

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FILE 'MEDLINE' ENTERED AT 14:46:51 ON 14 FEB 2002

=> s echinacea?

L1 934 ECHINACEA?

=> s chloroform?

L2 79510 CHLOROFORM?

=> s l1 and l2

L3 8 L1 AND L2

=> dup rem l3

PROCESSING COMPLETED FOR L3

L4 4 DUP REM L3 (4 DUPLICATES REMOVED)

=> d 1-4 ab,bib

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L4 ANSWER 1 OF 4 CA COPYRIGHT 2002 ACS  
AB MetOH exts. of freeze-dried **Echinacea** (*E. angustifolia*, *E. pallida*, and *E. purpurea*) roots were examd. for free radical scavenging capacities and antioxidant activities. Root exts. of *E. angustifolia*, *E. pallida*, and *E. purpurea* were capable of scavenging hydroxyl radical. Similar scavenging activities for each variety were found for both 1,1-diphenyl-2-picrylhydrazyl radical and ABTS radical. Meanwhile, antioxidant activities of all 3 varieties of **Echinacea** were found to delay the formation of conjugated diene hydroperoxide induced by the thermal decompn. of 2,2'-azobis(2-amidinopropane) dihydrochloride and extend the lag phase of peroxidn. of soybean liposomes. **Echinacea** root exts. suppressed the oxidn. of human low-d. lipoprotein, as evaluated by reduced agarose electrophoretic mobility following oxidative modification by Cu<sup>2+</sup>. The mechanisms of antioxidant activity of exts. derived from **Echinacea** roots included free radical scavenging and transition metal chelating.

AN 132:283991 CA  
TI Studies on the antioxidant activity of **Echinacea** root extract  
AU Hu, Chun; Kitts, David D.  
CS Food Nutrition and Health Faculty of Agricultural Science, University of British Columbia, Vancouver, BC, V6T 1Z4, Can.  
SO J. Agric. Food Chem. (2000), 48(5), 1466-1472  
CODEN: JAFCAU; ISSN: 0021-8561

PB American Chemical Society  
DT Journal  
LA English

RE.CNT 32 THERE ARE 32 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 4 CA COPYRIGHT 2002 ACS DUPLICATE 1  
AB A GC/NPD method and a rapid-screening TLC method were developed for the simultaneous detn. of uracil herbicide residues (bromacil, lenacil, terbacil) in the roots of *E. angustifolia*. The uracil herbicide residues were extd. with acetone. After evapn. of acetone from the ext., the residue was dissolved in water-methanol (5:1 vol./vol.). Cyclohexane was used for removal of the non-polar co-extractives in the sample matrix. After sepn. of the cyclohexane phase, the uracil herbicide residues were extd. into **chloroform**. This ext. was purified on a Florisil column, and residues were eluted with dichloromethane-acetone (9:1, vol./vol.). The cleaned up ext. was analyzed by GC/NPD on a capillary column DB-1, using atrazine as internal std. A min. recovery of 70% was attained for contamination levels of 0.02-0.40 mg kg<sup>-1</sup>.

AN 128:227272 CA

TI Gas chromatographic method for determination of uracil herbicides in roots

of **Echinacea angustifolia**

AU Tekel, Jozef; Tahotna, Sona; Vaverkova, Stefania

CS Faculty of Pharmacy, Comenius University, Bratislava, SK 832 32, Slovakia

SO J. Pharm. Biomed. Anal. (1998), 16(5), 753-758

CODEN: JPBADA; ISSN: 0731-7085

PB Elsevier Science B.V.

DT Journal

LA English

L4 ANSWER 3 OF 4 CA COPYRIGHT 2002 ACS

AB Lipophilic impurities or residues such as pesticides, org. solvents, arom.

org. compds., etc. are removed from beverages and juices or plant exts. and preps. by mixing with a lipophilic phase to carry the lipophilic impurities and later sepn. of this phase from the desired product.

AN 125:246102 CA

TI Process for removing unwanted lipophilic impurity or residue from drinks or vegetable preparations

IN Kreuter, Matthias-Heinrich; Steiner, Rudolf

PA Emil Flachsmann Ag, Switz.

SO Eur. Pat. Appl., 9 pp.

CODEN: EPXXDW

DT Patent

LA German

FAN.CNT 1

*Get this!*

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 730830	A1	19960911	EP 1996-103445	19960306
R: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
CH 688604	A	19971215	CH 1995-629	19950306
CH 689818	A	19991215	CH 1995-1621	19950602
AU 9647909	A1	19960919	AU 1996-47909	19960306
AU 678929	B2	19970612		
ZA 9601817	A	19960930	ZA 1996-1817	19960306
CN 1141205	A	19970129	CN 1996-106030	19960306
US 5906848	A	19990525	US 1996-611687	19960306
US 6024998	A	20000215	US 1998-208004	19981209

*Get these*

*Date Great!*

PRAI CH 1995-629 19950306  
CH 1995-1621 19950602  
US 1996-611687 19960306

L4 ANSWER 4 OF 4 CA COPYRIGHT 2002 ACS

DUPLICATE 2

AB Fast atom bombardment (FAB-MS) and fast atom bombardment tandem mass spectrometry (FAB-MS/MS) techniques (neg. ions) have been successfully applied for identification of the constituents responsible for the antihyaluronidase activity of **Echinacea** angustifolia roots, whose exts. are widely employed for the adjuvant therapy of chronic inflammatory diseases. Crude exts. from different solvents were tested for antihyaluronidase activity, and those with the greatest inhibitory action (the ethylacetate, butylacetate and **chloroform** fractions, IC50 0.44, 0.50 e 0.62 mg/mL) were directly analyzed by MS. Full scan mass spectra produced intense mol. anions: collisional activation of these

resulted in tandem mass spectra rich in significant product ions. Four main caffeoyl conjugates were detected and identified by tandem mass spectrometry (daughter and parent ion mode): 2,3-O-dicaffeoyltartaric acid

(chicoric acid) and 5-O-dicaffeoylquinic acid (cynarine) and 2-O-caffeoyltartaric acid (caftaric acid) in the ethylacetate fraction. Among these caffeoyl conjugates, chicoric and caftaric acids had the greatest antihyaluronidase activity: IC50 = 0.42 and 0.61 mM, while the IC50 of cynarine and chlorogenic acid were 1.85 and 2.25 mM.

AN 120:294112 CA

TI Direct characterization of caffeoyl esters with antihyaluronidase activity

in crude extracts from **Echinacea** angustifolia roots by fast atom bombardment tandem mass spectrometry

AU Facino, Roberto Maffei; Carini, Marina; Aldini, Giancarlo; Marinello, Cristina; Arlandini, Emanuele; Franzoi, Luigi; Colombo, Maristella; Pietta, Piergiorgio; Mauri, Pierluigi

CS Ist. Chim. Farm. Tossicol., Milan, 20131, Italy

SO Farmaco (1993), 48(10), 1447-61  
CODEN: FRMCE8

DT Journal

LA English